Rev. 10-22-04

PISCES IV DIVE REPORT

Pilot: MAX CREMER Dive #: ~~P4~~ PIV - 180 Date: NOVEMBER 5, 2006

Observer 1: RAY BOLAND

Affiliation: NATIONAL MARINE FISHERIES Dive Location: PENGUIN BANKS

Observer 2: FRANK PARRISH Latitude: 21° 02.153' N

Affiliation: NATIONAL MARINE FISHERIES Longitude: 157° 19.109' W

Purpose: (Research) Training Test Time of Dive: 0802

Other: Time of Surface: 1337

Special Equipment: Time Submerged: 5:35

Cameras: SONY DV, ROS COLOR Time Thru Last Dive: 1302:01

Manipulators: ORION, HYCO Total Time to Dive: 1307:36

Samplers/Sensors: CTD - DO, BIO BOX Dive Depth: 116 m

COVERED BOX, OPEN CRATE Water Depth: 116 m

Support Vessel: R/V KAIMIKAI-O-KANALOA Water Temperature: 23.2°C @ 114 m

Captain: ROSS BARNES Visibility: CLEAR, 20-30 m

Dive Results/Remarks: ARTIFICIAL REEF SURVEY. 0821 114m land on the bottom in a flat, sandy area, about 120m to the NE of the FRP structure. 0846 116m at FRP structure making observations on all 4 sides as well as the top of the artificial reef. 0936 move to the NNE to search for concrete culverts, stopping and making observations on the way. 1045 95m at 3-pipe culvert making observations. 1108 94m collect finger with plate coral between two culverts. 1115 93m at second artificial reef, making observations. 1139 93m surveying third set of culverts, a 6-pipe structure. 1153 96m surveying fourth set of culverts, a 3-pipe structure. 1200 move to S in very heavy ~~northerly~~ SOUTHERLY GW current, attempting to contour SW at 110m. 1300 109m current is flushing us into barren waste lands. Decision is made to cut short the dive, as all objectives were achieved. 1317 leave the bottom from 110m. Make a normal recovery.

Equipment Deficiencies: - NO MAJOR FAILURES -

Pilot's Signature: Date: NOVEMBER 4, 2006

Operations Director: Terry Kerby Date: NOV. 6, 2006